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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=3; day=7; hr=9; min=50; sec=54; ms=791;]

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Application No: 10594785 Version No: 1.0

Input Set:

Output Set:

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Finished: 2008-02-25 18:18:07.831
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 120 ms
Total Warnings: 17
Total Errors: 0
No. of SeqIDs Defined: 74
Actual SeqID Count: 74

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SEQUENCE LISTING

<110> Wu, Yingru
Llewellyn, Danny James
Machado, Adriane Cristine
Dennis, Elizabeth Salisbury

<120> Genes involved in plant fibre development

<130> 503310

<140> 10594785

<141> 2008-02-25

<150> 10/564,785

<151> 2005-03-31

<150> AU 2004901749

<151> 2004-03-31

<150> US 60/558,480

<151> 2004-03-31

<150> PCT/AU05/00467

<151> 2005-03-31

<160> 74

<170> PatentIn version 3.1

<210> 1

<211> 624

<212> PRT

<213> Gossypium hirsutum

<400> 1

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Glu Arg His Glu Asn Ala Ile Leu Lys Ala Glu Asn Glu Lys Leu Arg
20 25 30

Ala Glu Asn Asn Arg Tyr Lys Glu Ala Leu Ser Asn Ala Thr Cys Pro
35 40 45

Ser Cys Gly Gly Pro Ala Ala Leu Gly Glu Met Ser Phe Asp Glu Gln
50 55 60

His Leu Arg Ile Glu Asn Ala Arg Leu Arg Glu Glu Ile Asp Arg Ile
65 70 75 80

Ser Gly Ile Ala Ala Lys Tyr Val Gly Lys Pro Leu Ser Ser Leu Pro
85 90 95

His Leu Ser Ser His Leu His Ser Arg Ser Ala Asp Leu Gly Ala Ser
100 105 110

Asn Phe Gly Asn Gln Ser Gly Phe Val Gly Glu Met Asp Arg Ser Gly
115 120 125

Asp Leu Leu Arg Ser Val Ser Gly Pro Thr Glu Ala Asp Lys Pro Met
130 135 140

Ile Val Glu Leu Ala Val Ala Ala Met Glu Glu Leu Ile Arg Met Ala
145 150 155 160

Gln Ser Gly Glu Pro Leu Trp Val Pro Gly Asp Asn Ser Thr Asp Val
165 170 175

Leu Asn Glu Asp Glu Tyr Leu Arg Thr Phe Pro Arg Gly Ile Gly Pro
180 185 190

Lys Pro Leu Gly Leu Arg Ser Glu Ala Ser Arg Glu Ser Ala Val Val
195 200 205

Ile Met Asn His Val Asn Leu Val Glu Ile Leu Met Asp Val Asn Gln
210 215 220

Trp Ser Ser Val Phe Cys Gly Ile Val Ser Arg Ala Met Thr Leu Glu
225 230 235 240

Val Leu Ser Thr Gly Val Ala Gly Asn Tyr Asn Gly Ala Leu Gln Val
245 250 255

Met Thr Ala Glu Phe Gln Val Pro Ser Pro Leu Val Pro Thr Arg Glu
260 265 270

Asn Tyr Phe Ala Arg Tyr Cys Lys Gln His Ile Asp Gly Thr Trp Ala
275 280 285

Val Val Asp Val Ser Leu Asp Asn Leu Arg Pro Asn Pro Met Ser Ser
290 300

Val Glu Arg Pro Ser Gly Cys Leu Ile Gln Asn Cys Gln Met Asp Thr

305		310		315		320
Ser Lys Val Ile Trp Val Glu His Val Glu Val Asp Asp Arg Ala Val						
	325		330		335	
His Asn Ile Tyr Arg Pro Val Val Asn Ser Gly Leu Ala Phe Gly Ala						
	340		345		350	
Lys Arg Trp Val Ala Thr Leu Asp Arg Gln Cys Glu Arg Leu Ala Ser						
	355		360		365	
Ser Met Ala Ser Asn Ile Pro Ala Gly Gly Leu Cys Val Ile Thr Ser						
	370		375		380	
Pro Glu Gly Arg Lys Ser Met Leu Lys Leu Ala Glu Arg Met Val Thr						
	385		390		395	400
Ser Phe Cys Thr Gly Val Gly Ala Ser Thr Ala His Ala Trp Thr Thr						
	405		410		415	
Leu Ser Ala Thr Gly Ser Asp Asp Val Arg Val Met Thr Arg Lys Ser						
	420		425		430	
Met Asp Asp Pro Gly Arg Pro Pro Gly Ile Val Leu Ser Ala Ala Thr						
	435		440		445	
Ser Phe Trp Ile Gln Val Pro Pro Lys Arg Val Phe Asp Phe Leu Arg						
	450		455		460	
Asp Glu Asn Ser Arg Ser Glu Trp Asp Ile Leu Ser Asn Gly Gly Leu						
	465		470		475	480
Val Gln Glu Met Ala His Ile Ala Asn Gly Arg Asp Pro Gly Asn Cys						
	485		490		495	
Val Ser Leu Leu Arg Val Asn Ser Ala Asn Ser Ser Gln Ser Asn Met						
	500		505		510	
Leu Ile Leu Gln Glu Ser Cys Thr Asp Ala Lys Gly Ser Tyr Val Ile						
	515		520		525	
Tyr Ala Pro Val Asn Ile Val Ala Met Asn Ile Val Leu Ser Gly Gly						
	530		535		540	

Asp Pro Asp Tyr Val Ala Leu Leu Pro Ser Gly Phe Ala Ile Leu Pro
545 550 555 560

Asp Gly Pro Gly Val Asn Gly Gly Gly Ile Leu Glu Ile Gly Ser Gly
565 570 575

Gly Ser Leu Leu Thr Val Ala Phe Gln Ile Leu Val Asp Ser Val Pro
580 585 590

Thr Ala Lys Leu Ser Leu Gly Ser Val Ala Thr Val Asn Ser Leu Ile
595 600 605

Lys Cys Thr Val Glu Arg Ile Lys Ala Ala Val Lys Cys Asn Asn Ala
610 615 620

<210> 2
<211> 309
<212> PRT
<213> *Gossypium hirsutum*

<400> 2

Met Gly Arg Ser Pro Cys Cys Glu Lys Val Gly Leu Lys Lys Gly Pro
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Trp Thr Pro Glu Glu Asp Gln Lys Leu Leu Ala Tyr Ile Glu Gln His
20 25 30

Gly His Gly Ser Trp Arg Ala Leu Pro Ser Lys Ala Gly Leu Gln Arg
35 40 45

Cys Gly Lys Ser Cys Arg Leu Arg Trp Ile Asn Tyr Leu Arg Pro Asp
50 55 60

Ile Lys Arg Gly Lys Phe Ser Leu Gln Glu Glu Gln Thr Ile Ile Gln
65 70 75 80

Leu His Ala Leu Leu Gly Asn Arg Trp Ser Ala Ile Ala Thr His Leu
85 90 95

Pro Lys Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Thr His Leu
100 105 110

Met Lys Arg Leu Thr Lys Met Gly Ile Asp Pro Val Thr His Lys Pro
115 120 125

Lys Thr Asp Ala Leu Gly Ser Thr Thr Gly Asn Pro Lys Asp Ala Ala
130 135 140

Asn Leu Ser His Met Ala Gln Trp Glu Ser Ala Arg Leu Glu Ala Glu
145 150 155 160

Ala Arg Leu Val Arg Glu Ser Lys Leu Val Pro Ser Asn Pro Pro Gln
165 170 175

Ser Asn His Phe Thr Ala Val Ala Pro Ser Pro Thr Pro Ala Thr Arg
180 185 190

Pro Gln Cys Leu Asp Val Leu Lys Ala Trp Gln Gly Val Val Cys Gly
195 200 205

Leu Phe Thr Phe Asn Met Asp Asn Asn Asn Leu Gln Ser Pro Thr Ser
210 215 220

Thr Leu Asn Phe Met Glu Asn Thr Thr Thr Leu Pro Met Ser Ser Ser
225 230 235 240

Ser Ser Val Asn Gly Met Phe Asn Glu Asn Phe Gly Trp Asn Ser Ser
245 250 255

Ile Asn Pro Cys Glu Ser Gly Asp Asn Leu Lys Val Glu Tyr Gly Ser
260 265 270

Asp Gln Ile Pro Glu Leu Lys Glu Arg Leu Asp His Pro Met Glu Leu
275 280 285

His Glu Met Asp Tyr Ser Ser Glu Gly Thr Trp Phe Gln Glu Leu Phe
290 295 300

Gly Phe Asn Gly Leu
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<210> 3

<211> 150

<212> PRT

<213> Gossypium hirsutum

<400> 3

Arg Cys Glu Arg Leu Leu Leu Cys Val Ile Ser Asp Ala Arg Ser Ile
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His Tyr Leu Pro Ser Val Leu Ala Thr Ala Thr Met Met His Val Ile
20 25 30

Asp Gln Val Glu Leu Phe Asn Pro Ile Asp Tyr Gln Asn Gln Leu Leu
35 40 45

Ser Val Leu Lys Ile Ser Lys Glu Lys Val Asn Asp Cys Tyr Lys Leu
50 55 60

Ile Leu Asp Val Ser Thr Arg Pro Gln Ala Gln Gly Asn Gly Gly Ala
65 70 75 80

Cys Lys Arg Lys Val Glu Glu Arg Val Pro Ser Ser Pro Ser Gly Val
85 90 95

Ile Asp Ala Ala Phe Gly Ser Asp Ser Ser Ser Asp Ser Trp Gly Thr
100 105 110

Val Ser Leu Ser Pro Glu Gln Gln Pro Pro Phe Lys Lys Ser Arg Ala
115 120 125

Gln Glu Gln Val Met Arg Leu Pro Ser Leu Asn Arg Val Phe Val Asp
130 135 140

Ile Val Gly Ser Pro Ser
145 150

<210> 4

<211> 229

<212> PRT

<213> *Gossypium hirsutum*

<400> 4

Met Ala Asn His Thr Val Thr Phe Leu Pro Lys Leu Ser Ile Glu Ala
1 5 10 15

Ile Gln Thr Val Thr Pro Met Arg Ile Thr Glu Pro Arg Gln Thr Arg
20 25 30

Gln Val Leu Ala Gly Glu Leu Val Gly Pro Gly Ile Phe Gln Arg Cys
35 40 45

Leu Asn Val Val Gln Tyr Tyr Met Lys Glu Lys Glu Glu Asp Ser Gly
50 55 60

Trp Leu Leu Ala Gly Trp Ile Lys Glu Thr Leu Gly Arg Ala Leu His
65 70 75 80

Glu Gln Pro Met Ile Ser Gly Arg Leu Arg Lys Gly Glu Arg Asn Asp
85 90 95

Gly Glu Leu Glu Ile Val Ser Asn Asp Cys Gly Ile Arg Leu Ile Glu
100 105 110

Ala Arg Ile Gln Met Asn Leu Ser Asp Phe Leu Asp Leu Lys Gln Arg
115 120 125

Glu Asp Ala Glu Ala Gln Leu Val Phe Trp Lys Asp Ile Asp Glu Gln
130 135 140

Asn Pro Gln Phe Ser Pro Leu Phe Tyr Val Gln Val Thr Asn Phe Gln
145 150 155 160

Cys Gly Gly Tyr Ser Ile Gly Ile Ser Cys Ser Ile Leu Leu Ala Asp
165 170 175

Leu Leu Leu Met Lys Glu Phe Leu Lys Thr Trp Ala Asp Ile Pro Thr
180 185 190

Arg Leu Leu Ser Thr Lys Thr Met Asn Lys Ser Phe Leu Tyr Ser Thr
195 200 205

Phe Leu Ala Glu Lys His Gln Trp Cys Leu Pro Thr Ser Ser His Gln
210 215 220

Ile Gln Ala Lys Leu
225

<210> 5

<211> 107

<212> PRT

<213> Gossypium hirsutum

<400> 5

Met Ala Lys Tyr Leu Asn Val Val Leu Val Leu Ala Leu Val Val Val
1 5 10 15

Gln Ala Thr Ala Arg Asn Val Pro Ser Asp Ala Ala Gly Leu Asn Asp
20 25 30

Gln Lys Asn Leu Leu Thr Tyr Gly Gly Ile Gly Gly Tyr Ser Gly Met
35 40 45

Gly Ser Asn Gly Met Pro Met Gly Gly Val Gly Ser Val Gly Gly Met
50 55 60

Thr Gly Leu Gly Gly Thr Gly Gly Met Gly Ala Met Val Gly Val Gly
65 70 75 80

Tyr Gly Gly Gly Pro Gly Ala Gly Gly Gly Asn Glu Gly Gly Val Gly
85 90 95

Ile Gly Asn Ala Pro Gly Val Val His Phe Pro
100 105

<210> 6

<211> 112

<212> PRT

<213> *Gossypium hirsutum*

<400> 6

Ser Ser Asp Ser Arg Lys Pro Leu Ala Ser Phe Tyr Leu Glu Lys Thr
1 5 10 15

Lys Lys Leu Leu Leu Cys Trp Thr Cys Ser Cys Phe Phe Ser Leu Tyr
20 25 30

Gly Val Val Tyr Gly Leu Tyr Tyr Glu Phe Tyr Met Asn Arg Thr Leu
35 40 45

Asn Leu Val Arg Lys Leu Arg Met Ser Leu Gly Gly Ala Glu Val Leu
50 55 60

Met Ala Ile Ala Gly Leu Trp Ala Val Val Leu Arg Pro Leu Met Ile
65 70 75 80

Arg Tyr Ala Val Glu Met Ser Gln Met Ile Gly Ile Ser Val Arg Arg
85 90 95

Phe Phe Ser Asn Pro Leu Ser Pro Ser Val Ser Phe Phe Tyr Trp Tyr
100 105 110

<210> 7
<211> 258
<212> PRT
<213> *Gossypium hirsutum*

<400> 7

Met Ala Thr Lys Thr Met Met Leu Gln Ile Phe Pro Leu Phe Phe Phe
1 5 10 15

Leu Phe Ser Val Cys Asn Ser Ile Phe Leu Gly Ala Asn Gly Asp Asp
20 25 30

Asn Gly Gly Trp Gln Thr Ala His Ala Thr Phe Tyr Gly Gly Ala Asp
35 40 45

Ala Thr Gly Thr Met Gly Gly Ala Cys Gly Tyr Gly Asn Leu Tyr Ser
50 55 60

Gln Gly Tyr Gly Thr Ser Thr Ala Ala Leu Ser Thr Ala Leu Phe Asn
65 70 75 80

Asn Gly Leu Ser Cys Gly Ala Cys Tyr Glu Leu Arg Cys Asn Asn Asp
85 90 95

Pro Gln Trp Cys Ile Ser Arg Thr Ile Thr Val Thr Ala Thr Asn Phe
100 105 110

Cys Pro Pro Asn Tyr Ala Leu Ser Ser Asp Asn Gly Gly Trp Cys Asn
115 120 125

Pro Pro Arg Glu His Phe Asp Leu Ala Glu Pro Arg Phe Leu Arg Ile
130 135 140

Ala Glu Tyr Arg Ala Gly Ile Val Pro Val Met Phe Arg Arg Val Ser
145 150 155 160

Cys Val Lys Lys Gly Gly Ile Arg Tyr Thr Met Asn Gly His Ser Tyr
165 170 175

Phe Asn Met Val Leu Ile Thr Lys Leu Gly Gly Ala Gly Asp Ile Thr
180 185 190

Ser Val Ser Ile Lys Gly Ser Arg Thr Gly Trp Leu Pro Met Ser Arg
195 200 205

Asn Trp Gly Gln Asn Trp Gln Ser Asn Ala Tyr Leu Asn Gly Gln Ser
210 215 220

Leu Ser Phe Lys Val Thr Ala Ser Asp Gly Arg Thr Ile Thr Ala Tyr
225 230 235 240

Asn Val Val Pro Ala Gly Trp Gln Phe Gly Gln Thr Phe Glu Gly Gly
245 250 255

Gln Phe

<210> 8
<211> 190
<212> PRT
<213> Gossypium hirsutum

<400> 8

Val Pro Phe Tyr Ser Ser Asn Tyr Leu Leu His Glu Ser Cys Met Met
1 5 10 15

Met Ile Ala Ser Leu Val Pro Asn Phe Met Met Gly Val Ile Ile Gly
20 25 30

Ala Gly Tyr Ile Gly Leu Leu Met Met Thr Ala Gly Tyr Phe Arg Leu
35 40 45

Leu Pro Asp Leu Pro Lys Ile Phe Trp Arg Tyr Pro Val Ser Tyr Ile
50 55 60

Asn Tyr Gly Ala Trp Ala Leu Gln Gly Ala Tyr Lys Asn Asp Met Val
65 70 75 80

Gly Leu Glu Phe Asp Gly Phe Ile Pro Gly Gly Pro Lys Leu Lys Gly
85 90 95

Asp Val Val Leu Thr Ser Met Leu Gly Ile His Leu Asp His Ser Lys
100 105 110

Trp Trp Asp Leu Ala Ala Val Ile Met Ile Leu Ile Ala Tyr Arg Leu
115 120 125

Leu Phe Phe Ile Ile Leu Lys Phe Lys Glu Arg Val Ser Pro Leu Phe
130 135 140

Arg Thr Leu Tyr Thr Trp Arg Thr Leu Gln His Met Lys Lys Arg Pro
145 150 155 160

Ser Phe Arg Lys Thr Ser Ala Phe Pro Ser Lys Arg His Gln Val Leu
165 170 175

His Ser Leu Ser Ser Gln Glu Gly Leu Asn Ser Pro Ile His
180